



STIC Search Report

Biotech-Chem Library

STIC Database Tracking Number: 191553

TO: Rei-Tsang Shiao
Location: REM/5A10/5C18
Art Unit: 1626
Wednesday, June 21, 2006
Case Serial Number: 10/810404

From: Barb O'Bryen
Location: Biotech-Chem Library
Remsen 1a69
Phone: 571-272-2518
msB
barbara.obryen@uspto.gov

Search Notes

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STIC SEARCH RESULTS FEEDBACK FORM

Biotech-Chem Library

Questions about the scope or the results of the search? Contact **the searcher or contact:**

Mary Hale, Information Branch Supervisor
571-272-2507 Remsen E01 D86

Voluntary Results Feedback Form

- *I am an examiner in Workgroup:* *Example: 1610*
- *Relevant prior art found, search results used as follows:*
- 102 rejection
 - 103 rejection
 - Cited as being of interest.
 - Helped examiner better understand the invention.
 - Helped examiner better understand the state of the art in their technology.

Types of relevant prior art found:

- Foreign Patent(s)
- Non-Patent Literature
(journal articles, conference proceedings, new product announcements etc.)

- *Relevant prior art not found:*

- Results verified the lack of relevant prior art (helped determine patentability).
- Results were not useful in determining patentability or understanding the invention.

Comments:

Drop off or send completed forms to STIC/Biotech-Chem Library Remsen Bldg.



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Scientific and Technical Information Center

SEARCH REQUEST FORM

Requester's Full Name: Robert (Reitzig) Shiao Examiner #: 79521 Date: 5/30/06
Art Unit: 1626 Phone Number: (207) 0707 Serial Number: 10/810,424
Location (Bldg/Room#): REM (Mailbox #): 5A10 Results Format Preferred (circle): PAPER DISK

15C18

To ensure an efficient and quality search, please attach a copy of the cover sheet, claims, and abstract or fill out the following:

Title of Invention: Alkylated phosphite
Inventors (please provide full names): Reitzig

Earliest Priority Date: _____

Search Topic:

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc., if known.

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

→ sub a copy of the formula (z) (see claim)
$$(HO\{CH(R)\}_m On)_3 P$$
 & R is sub
family (z) & m is 2-20
n is 1~20

→ seek compositions copyng formula (z)
with a metal i.e. Ti, Ng, etc.

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Application No.: 10/810404
Docket No.: CH2979USNA

Page 2

AMENDMENTS TO THE CLAIMS

1. (Currently amended) A composition comprising an alkoxyated phosphite having the formula of $(HO[(CH(R))_mO]_n)_3P$ wherein each R is independently hydrogen, an alkyl group, or combinations of two or more thereof; m is a number from 2 to about 20; and n is a number from about 1 to about 20; and an organic titanium compound.

2. (Canceled)

3. (Currently amended) A composition according to claim 1 wherein said alkoxyated phosphite composition is tri-(ethyleneglycol) phosphite, tri(propylene glycol) phosphite; tri(isopropylene glycol) phosphite; tri(1,4-butylene glycol) phosphite; tri(-isobutylene glycol) phosphite; tri(pentylene glycol) phosphite; tri(hexylene glycol) phosphite; tri(octylene glycol) phosphite, tri(nonylene glycol) phosphite, tri(diethylene glycol) phosphite, tri(triethylene glycol) phosphite, tri(polyethylene glycol) phosphite, tri(polypropylene glycol) phosphite, tri(polybutylene glycol) phosphite; or combinations of two or more thereof.

4. (Currently amended) A composition according to claim 3 wherein said alkoxyated phosphite composition is tri-(ethylene ethylene glycol) phosphite.

5. (Canceled)

6. (Currently amended) A composition according to claim 5-3 wherein said composition further comprising a complexing agent, which is a hydroxycarboxylic acid, an alkanolamine, an aminocarboxylic acid, or combinations of two or more thereof.

7. (Currently amended) A composition according to claim 6 wherein said composition further comprising a hypophosphorous acid, its salt, or both.

8. (Currently amended) A composition according to claim 6 wherein said titanium or a titanium compound is tetra isopropyl titanate, tetra n-butyl titanate, or combinations thereof.

9. (Currently amended) A composition according to claim 7 wherein said titanium or a titanium compound is tetra isopropyl titanate, tetra n-butyl titanate, or combinations thereof.

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Bib Data Sheet

CONFIRMATION NO. 1343

SERIAL NUMBER 10/810,404	FILING DATE 03/26/2004 RULE	CLASS 558	GROUP ART UNIT 1626	ATTORNEY DOCKET NO. CH2979USNA
APPLICANTS Donald E. Putzig, Newark, DE;				
** CONTINUING DATA *****				
** FOREIGN APPLICATIONS *****				
IF REQUIRED, FOREIGN FILING LICENSE GRANTED ** 06/06/2004				
Foreign Priority claimed 35 USC 119 (a-d) conditions met Verified and Acknowledged	<input type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> Met after Allowance Examiner's Signature _____ Initials _____	STATE OR COUNTRY DE	SHEETS DRAWING 0	TOTAL CLAIMS 40 INDEPENDENT CLAIMS 3
ADDRESS 23906 E I DU PONT DE NEMOURS AND COMPANY LEGAL PATENT RECORDS CENTER BARLEY MILL PLAZA 25/1128 4417 LANCASTER PIKE WILMINGTON , DE 19805				
TITLE Alkoxylated phosphite ester and process therefor				
FILING FEE RECEIVED 1130	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following:	<input type="checkbox"/> All Fees <input type="checkbox"/> 1.16 Fees (Filing) <input type="checkbox"/> 1.17 Fees (Processing Ext. of time) <input type="checkbox"/> 1.18 Fees (Issue)		

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=> fil reg; d stat que 121
FILE 'REGISTRY' ENTERED AT 11:23:39 ON 21 JUN 2006
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STRUCTURE FILE UPDATES: 20 JUN 2006 HIGHEST RN 888507-19-5
DICTIONARY FILE UPDATES: 20 JUN 2006 HIGHEST RN 888507-19-5

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TSCA INFORMATION NOW CURRENT THROUGH January 6, 2006

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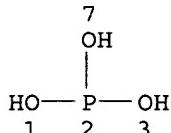
*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*

Structure search iteration limits have been increased. See HELP SLIMITS for details.

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<http://www.cas.org/ONLINE/UG/regprops.html>

L13 STR



NODE ATTRIBUTES:

CONNECT IS E3 RC AT 2
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 4

STEREO ATTRIBUTES: NONE

L14 STR

Search done looking for structures of L13 & L14 in same record

HO—Ak—OH
4 5 6

NODE ATTRIBUTES:

CONNECT IS E2 RC AT 5
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED
ECOUNT IS M2 C AT 5

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 3

STEREO ATTRIBUTES: NONE

L19 150 SEA FILE=REGISTRY FAM FUL L13
L21 9 SEA FILE=REGISTRY SUB=L19 SSS FUL L14

100.0% PROCESSED 150 ITERATIONS (1 INCOMPLETE) 9 ANSWERS
SEARCH TIME: 00.00.01

=> fil capl; d que nos l33
FILE 'CAPLUS' ENTERED AT 11:23:47 ON 21 JUN 2006
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FILE COVERS 1907 - 21 Jun 2006 VOL 144 ISS 26
FILE LAST UPDATED: 20 Jun 2006 (20060620/ED)

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'OBI' IS DEFAULT SEARCH FIELD FOR 'CAPLUS' FILE

L13	STR
L14	STR
L19	150 SEA FILE=REGISTRY FAM FUL L13
L21	9 SEA FILE=REGISTRY SUB=L19 SSS FUL L14
L32	8 SEA FILE=REGISTRY ABB=ON L21/COMPLETE
L33	14 SEA FILE=CAPLUS ABB=ON L32

=> d ibib ed abs hitstr l33 1-14

L33 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2005:1050944 CAPLUS
 DOCUMENT NUMBER: 143:347945
 TITLE: Alkoxylated phosphite ester stabilizer for polyester composition and preparation
 INVENTOR(S): Putzig, Donald E.
 PATENT ASSIGNEE(S): USA
 SOURCE: U.S. Pat. Appl. Publ., 6 pp.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005215809	A1	20050929	US 2004-810404	20040326
WO 2005097810	A1	20051020	WO 2005-US9289	20050321
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

PRIORITY APPLN. INFO.: US 2004-810404 A 20040326

OTHER SOURCE(S): MARPAT 143:347945

ED Entered STN: 30 Sep 2005

AB The composition comprises an alkoxylated phosphite ester ($\text{HO}[\{\text{CH}(\text{R})\}_{m\text{O}}]_n\text{P}$) in which each R = H or an alkyl group, or combinations of ≥ 2 of these groups and m, n = .apprx.2-20. The process comprises contacting a trialkyl phosphite with an alkylene glycol or polyalkylene glycol to produce a mixture followed by heating the mixture. Also use comprises contacting a carbonyl compound, in the presence of the above composition, with an alc. to produce polyester. A very low color value is obtained for poly(ethylene terephthalate) production in the presence of Tyzor LA catalyst and stabilizer tri(ethylene glycol)phosphite (e.g., preparation given).

IT 93481-28-8 865762-95-4

RL: MOA (Modifier or additive use); USES (Uses)
(alkoxylated phosphite ester stabilizer for polyester manufacture)

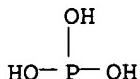
RN 93481-28-8 CAPLUS

CN 1,2-Propanediol, phosphite (3:1) (9CI) (CA INDEX NAME)

CM 1

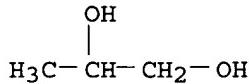
CRN 10294-56-1

CMF H3 O3 P



CM 2

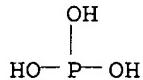
CRN 57-55-6
 CMF C3 H8 O2



RN 865762-95-4 CAPLUS
 CN 1,2-Propanediol, 2-methyl-, phosphite (3:1) (9CI) (CA INDEX NAME)

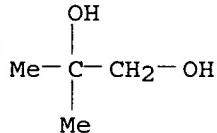
CM 1

CRN 10294-56-1
 CMF H3 O3 P



CM 2

CRN 558-43-0
 CMF C4 H10 O2



L33 ANSWER 2 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2002:66770 CAPLUS
 DOCUMENT NUMBER: 136:121064
 TITLE: Nonaqueous electrolyte lithium secondary battery
 INVENTOR(S): Iwamoto, Kazuyu; Oura, Takafumi; Hatazaki, Makino;
 Yoshizawa, Hiroshi; Sonoda, Kumiko; Nakanishi, Shinji
 PATENT ASSIGNEE(S): Matsushita Electric Industrial Co., Ltd., Japan
 SOURCE: Eur. Pat. Appl., 31 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1174940	A1	20020123	EP 2001-117048	20010712
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2002033119	A2	20020131	JP 2000-215518	20000717

JP 2002033120	A2	20020131	JP 2000-215519	20000717
JP 2002033124	A2	20020131	JP 2000-215520	20000717
US 2002039677	A1	20020404	US 2001-901130	20010710
US 6958198	B2	<u>20051025</u>		
CN 1333580	A	20020130	CN 2001-123135	20010717
PRIORITY APPLN. INFO.:			JP 2000-215518	A 20000717
			JP 2000-215519	A 20000717
			JP 2000-215520	A 20000717

ED Entered STN: 24 Jan 2002

AB The invention relates to a nonaq. electrochem. apparatus in which the difference ($\gamma_l - \gamma_{se}$) between the surface tension γ_l of nonaq. electrolyte and the surface free energy γ_{se} of electrode is not more than 10 dynes/cm. The nonaq. electrolyte contains a F-containing surface active agent.

IT 37228-47-0, Ethylene phosphite

RL: MOA (Modifier or additive use); USES (Uses)
(nonaq. electrolyte lithium secondary battery)

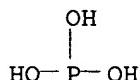
RN 37228-47-0 CAPLUS

CN 1,2-Ethanediol, phosphite (9CI) (CA INDEX NAME)

CM 1

CRN 10294-56-1

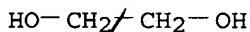
CMF H3 O3 P



CM 2

CRN 107-21-1

CMF C2 H6 O2



REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L33 ANSWER 3 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2001:472825 CAPLUS
 DOCUMENT NUMBER: 135:62153
 TITLE: Polyester composition with improved heat-up properties
 INVENTOR(S): Massey, Freddie; Deisz, George; Rollick, Kevin; Tung, William
 PATENT ASSIGNEE(S): M & G Polymers USA, LLC, USA
 SOURCE: PCT Int. Appl., 27 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	-----	-----	-----	-----

WO 2001046306	A1	20010628	WO 2000-US34835	20001220
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
US 2003018115	A1	20030123	US 2000-736817	20001214
US <u>6660792</u>	B2	20031209		
CA 2395252	AA	20010628	CA 2000-2395252	20001220
EP 1280851	A1	20030205	EP 2000-993519	20001220
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2003518182	T2	20030603	JP 2001-547210	20001220
PRIORITY APPLN. INFO.:			US 1999-172819P	P 19991221
			WO 2000-US34835	W 20001220

ED Entered STN: 29 Jun 2001

AB A thermoplastic composition, such as PET, contains an inert iron compound, such as FeP, FeSi, or combinations thereof, having no chemical activity in the PET, with or without certain quantities of elemental metals, such as antimony, and a reducing agent or other stabilizer such as phosphite or phosphoric acid. The composition may also optionally contain a color stabilizer, a DEG inhibitor, and stress crack inhibiting agents. The composition has a reduced heat-up time preform before being blown into containers.

IT 37228-47-0, Ethylene glycol phosphite

RL: MOA (Modifier or additive use); USES (Uses)
(polyester composition with improved heat-up properties)

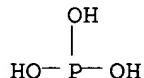
RN 37228-47-0 CAPLUS

CN 1,2-Ethanediol, phosphite (9CI) (CA INDEX NAME)

CM 1

CRN 10294-56-1

CMF H3 O3 P



CM 2

CRN 107-21-1

CMF C2 H6 O2

HO-CH₂-CH₂-OH

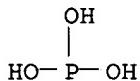
REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L33 ANSWER 4 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1990:586581 CAPLUS

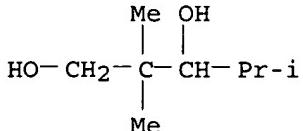
DOCUMENT NUMBER: 113:186581
 TITLE: Antimicrobial solution comprising organophosphorus compounds, for polymers
 INVENTOR(S): Rei, Nuno M.
 PATENT ASSIGNEE(S): Morton Thiokol, Inc., USA
 SOURCE: U.S., 6 pp.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4933011	A	19900612	US 1983-560761	19831212
PRIORITY APPLN. INFO.:			US 1983-560761	19831212
OTHER SOURCE(S):	MARPAT 113:186581			
ED	Entered STN: 23 Nov 1990			
AB	Solns. of sulfonylethylene, isoindoledicarboximide or Zn hydroxypyridinethioate derivative in organic phosphites or phosphonates, are microbicides for polymers. The solns. are used in conjunction with plasticizers. A mixture of 2,3,5,6-tetrachloro-4-(methylsulfonyl)pyridine 15, poly(dipropylene glycol)phenyl phosphite 35, dioctyl phthalate 50% by weight was incorporated into a polymer.			
IT	129899-52-1			
	RL: BIOL (Biological study) (microbical composition containing, for polymers)			
RN	129899-52-1 CAPLUS			
CN	1,3-Pantanediol, 2,2,4-trimethyl-, phosphite (9CI) (CA INDEX NAME)			

CM 1

CRN 10294-56-1
CMF H3 O3 P

CM 2

CRN 144-19-4
CMF C8 H18 O2

L33 ANSWER 5 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1986:592961 CAPLUS
 DOCUMENT NUMBER: 105:192961
 TITLE: Vinyl polymer coatings with high pigment

INVENTOR(S): dispersibility
 Kumada, Hajime; Maruyama, Kazuyoshi
 PATENT ASSIGNEE(S): Dainippon Ink and Chemicals, Inc., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 20 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

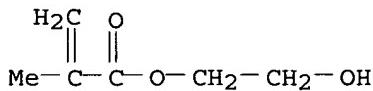
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 61023652	A2	19860201	JP 1984-142297	19840711
JP 07078195	B4	19950823		

PRIORITY APPLN. INFO.:
 ED Entered STN: 28 Nov 1986
 AB A vinyl polymer with polydispersity 2-25, exhibiting good pigment dispersibility when used as a coating material, is prepared from an amido group-containing vinyl monomer 0.05-10, a P-containing vinyl monomer 0-5, on unsatd. group-containing polyester 0.1-40, and other vinyl monomers 45-99.85%. A mixture of 50.1% PhMe solution of an oil-modified unsatd. polyester from dehydrated castor oil 382, maleic anhydride 5, phthalic anhydride 349, neopentyl glycol 134, trimethylolpropane 98, and pentaerythritol 100 parts 100, styrene 300, Me methacrylate 200, diacetoneacrylamide 10, Bu methacrylate 100, Bu acrylate 180, 2-hydroxyethyl methacrylate 150, methacrylic acid 8, and 2-methacryloyloxyethyl acid phosphate 2 parts in 300 parts PhMe and 400 parts BuOAc was polymerized in the presence of a peroxide initiators at 110° to give a 50.1% polymer solution with Gardner viscosity U, acid value 3.0, OH value 38, and polydispersity 8.2. A coating composition comprising 100 parts this polymer, 10% Neo-Spectra Mark II, and 40 parts 1:1 xylene-BuOAc mixture exhibited good pigment dispersibility and gave a layer with high gloss.

IT 105062-61-1P
 RL: PREP (Preparation)
 (manufacture of, for glossy coatings containing highly dispersed pigments)
 RN 105062-61-1 CAPLUS
 CN 1,3-Benzene dicarboxylic acid, polymer with 2,2-bis(hydroxymethyl)-1,3-propanediol, 2,2-dimethyl-1,3-propanediol, ethenylbenzene, 2-ethyl-2-(hydroxymethyl)-1,3-propanediol, ethyl 2-propenoate, 2,5-furandione, hexanedioic acid, 2-hydroxyethyl 2-methyl-2-propenoate, 2-hydroxyethyl 2-methyl-2-propenoate phosphite, methyl 2-methyl-2-propenoate, 2-methyl-2-propenamide and 2-methyl-2-propenoic acid (9CI) (CA INDEX NAME)

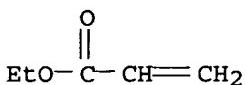
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CRN 868-77-9
 CMF C6 H10 O3



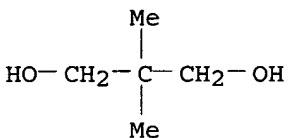
CM 2

CRN 140-88-5
 CMF C5 H8 O2



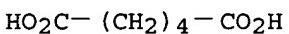
CM 3

CRN 126-30-7
CMF C5 H12 O2



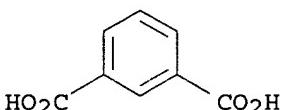
CM 4

CRN 124-04-9
CMF C6 H10 O4



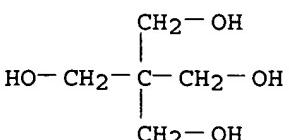
CM 5

CRN 121-91-5
CMF C8 H6 O4



CM 6

CRN 115-77-5
CMF C5 H12 04



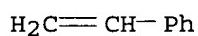
CM 7

CRN 108-31-6
CMF C4 H2 O3



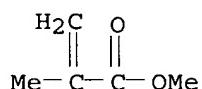
CM 8

CRN 100-42-5
CMF C8 H8



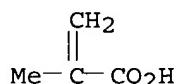
CM 9

CRN 80-62-6
CMF C5 H8 O2



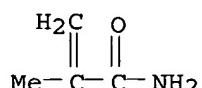
CM 10

CRN 79-41-4
CMF C4 H6 O2



CM 11

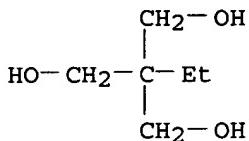
CRN 79-39-0
CMF C4 H7 N O



CM 12

CRN 77-99-6

CMF C6 H14 O3

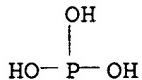


CM 13

CRN 104492-17-3
 CMF C6 H10 O3 . x H3 O3 P

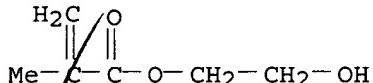
CM 14

CRN 10294-56-1
 CMF H3 O3 P



CM 15

CRN 868-77-9
 CMF C6 H10 O3



13 ANSWER 6 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1985:19616 CAPLUS
 DOCUMENT NUMBER: 102:19616
 TITLE: Stabilized 2-mercaptopyridene-1-oxide and derivatives
 INVENTOR(S): Hill, Nicholas J.
 PATENT ASSIGNEE(S): Excalibur, Inc., USA
 SOURCE: U.S., 4 pp.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4474760	A	19841002	US 1983-506764	19830622
AU 8429565	A1	19850103	AU 1984-29565	19840620
BR 8403032	A	19850528	BR 1984-3032	19840620
DK 8403029	A	19841223	DK 1984-3029	19840621
NL 8401969	A	19850116	NL 1984-1969	19840621

JP 60013705	A2	19850124	JP 1984-126589	19840621
EP 132301	A1	19850130	EP 1984-304207	19840621
R: BE, DE, FR, GB, IT, SE				
ZA 8404699	A	19850529	ZA 1984-4699	19840621
PRIORITY APPLN. INFO.:			US 1983-506764	A 19830622

OTHER SOURCE(S): MARPAT 102:19616

ED Entered STN: 26 Jan 1985

AB Organophosphorus compds., i.e., phosphites and glycol phosphonates, and benzothiazole derivs. act together to stabilize mercaptopyridene microbicides against degradation in a polymer system and discoloration of the polymer. Thus, a plastisol composition containing 0.2 weight% Zn

2-mercaptopyridine-1-oxide (I) [13463-41-7], 0.2 weight% poly(dipropylene glycol)phenyl phosphite [93793-60-3], and 0.2 weight% 2-(2'-hydroxy-5'-methylphenyl)benzotriazole [2440-22-4] did not discolor or lose fungicidal activity following treatment by heat (60 min, 350 °F) and (or) UV light (100, 200 h), whereas a plastisol composition containing only 0.2 weight% I exhibited brown

and

orange discolorations and a loss of fungicidal activity. Stabilized mercaptopyridines are compatible with polymer systems based on PVC [9002-86-2], vinyl chloride-vinyl acetate copolymer, ethylene vinyl acetate, polyethylene, polypropylene, acrylonitrile-butadiene-styrene, and polyethane.

IT 93793-52-3

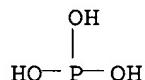
RL: BIOL (Biological study)
(mercaptopyridenes stabilization by, in microboidal polymer compns.)

RN 93793-52-3 CAPLUS

CN Phosphorous acid, phenyl ester, ester with 2,2-dimethyl-1,3-propanediol (9CI) (CA INDEX NAME)

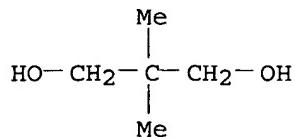
CM 1

CRN 10294-56-1
CMF H3 O3 P



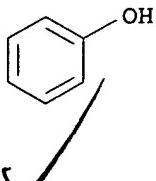
CM 2

CRN 126-30-7
CMF C5 H12 O2



CM 3

CRN 108-95-2
CMF C6 H6 O



L33 ANSWER 7 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1984:480761 CAPLUS
 DOCUMENT NUMBER: 101:80761
 TITLE: Alkaline bath for bright copper plating
 INVENTOR(S): Kaminski, Jan; Jeczmien, Ryszard; Szczepaniak, Stanislaw
 PATENT ASSIGNEE(S): Politechnika Wroclawska, Pol.
 SOURCE: Pol., 3 pp.
 CODEN: POXXA7
 DOCUMENT TYPE: Patent
 LANGUAGE: Polish
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

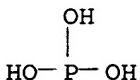
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PL 122817	B2	19820831	PL 1980-228279	19801203
PRIORITY APPLN. INFO.:			PL 1980-228279	19801203

ED Entered STN: 01 Sep 1984
 AB A bath for Cu plating contains 1-hydroxyethane-1,1-diphosphonic acid, Cu salts, and KOH as well as 0.001-0.1 g/L of polyoxyethylated quaternary ammonium compound [RN[(C₂H₄O)_nH]X[(C₂H₄O)_mH]]⁺Y⁻, (R = fatty acid radical; X = Me, Et; Y = Cl, Br, I, or OH; 2 ≤ n + m < 30); 0.001-0.5 g/L of polyhydric alcs. phosphates and/or the product of reaction of H₃PO₄ with 1-chloro-2,3-epoxypropane; and 0.0005-0.3 g/L of 2-mercaptopbenzothiazole and/or its derivs.

IT 37228-47-0
 RL: PRP (Properties)
 (in electroplating, of bright copper)
 RN 37228-47-0 CAPLUS
 CN 1,2-Ethanediol, phosphite (9CI) (CA INDEX NAME)

CM 1

CRN 10294-56-1
 CMF H₃ O₃ P



CM 2

CRN 107-21-1
 CMF C₂ H₆ O₂

HO—CH₂—CH₂—OH

L33 ANSWER 8 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1980:147902 CAPLUS
 DOCUMENT NUMBER: 92:147902
 TITLE: Fiber-forming poly(ethylene terephthalate) composition
 of a white color and increased high-temperature
 resistance
 INVENTOR(S): Tybora, Zenon; Chodkowski, Edward; Michalski, Andrzej;
 Gorka, Jan; Grzeskowiak, Eugeniusz; Gotowt, Boleslaw;
 Wilczek, Arkadiusz
 PATENT ASSIGNEE(S): Instytut Wlokiem Chemicznych, Pol.
 SOURCE: Pol., 2 pp.
 CODEN: POXXA7
 DOCUMENT TYPE: Patent
 LANGUAGE: Polish
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

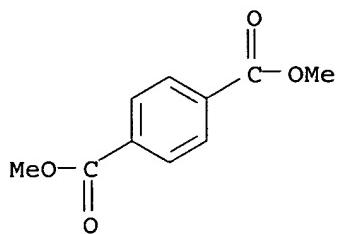
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PL 98134	P	19790410	PL 1975-180272	19750508
PRIORITY APPLN. INFO.:			PL 1975-180272	19750508

ED Entered STN: 12 May 1984
 AB White, fiber-forming poly(ethylene terephthalate) [25038-59-9] of
 improved resistance to high temps. is prepared by addition to the reaction
 mixture during or after polycondensation of phosphates or phosphites of
 ethylene glycol (I), or their mixture, in the amount \leq 1.5% with respect
 to terephthalic acid or di-Me terephthalate (II) and conducting the ester
 exchange and polycondensation in the presence of catalysts. Thus, ester
 exchange between 1358 g II and 900 g I in the presence of 0.68 g Mn and Ca
 acetates was conducted until \geq 90% theor. MeOH was produced. Then
 TiO₂ 6.8, ethylene glycol phosphate 0.34, and Sb₂O₃ 0.68 g were added, and
 the polycondensation was continued at 285° (0.5 mm Hg) for 80 min
 with removal of the generated I. The resulting polymer [73261-15-1] had
 whiteness 49.1, brightness 61.0, softening temperature 263.5°, and during
 thermogravimetric anal. it lost 1% of its weight after 90 min.

IT 73261-13-9P 73261-14-0P
 RL: PREP (Preparation)
 (preparation of fiber-forming, white, heat-resistant)
 RN 73261-13-9 CAPLUS
 CN 1,4-Benzenedicarboxylic acid, dimethyl ester, polymer with 1,2-ethanediol
 and 1,2-ethanediol phosphite (9CI) (CA INDEX NAME)

CM 1

CRN 120-61-6
 CMF C10 H10 O4



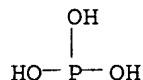
CM 2

CRN 107-21-1
CMF C2 H6 O2HO—CH₂—CH₂—OH

CM 3

CRN 37228-47-0
CMF C2 H6 O2 . x H3 O3 P

CM 4

CRN 10294-56-1
CMF H3 O3 P

CM 5

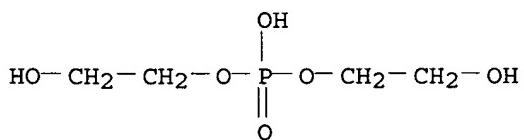
CRN 107-21-1
CMF C2 H6 O2HO—CH₂—CH₂—OH

RN 73261-14-0 CAPLUS

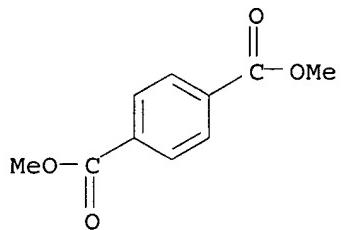
CN 1,4-Benzenedicarboxylic acid, dimethyl ester, polymer with
bis(2-hydroxyethyl) hydrogen phosphate, 1,2-ethanediol and 1,2-ethanediol
phosphite (9CI) (CA INDEX NAME)

CM 1

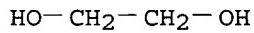
CRN 18924-97-5
CMF C4 H11 O6 P



CM 2

CRN 120-61-6
CMF C10 H10 O4

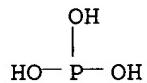
CM 3

CRN 107-21-1
CMF C2 H6 O2

CM 4

CRN 37228-47-0
CMF C2 H6 O2 . x H3 O3 P

CM 5

CRN 10294-56-1
CMF H3 O3 P

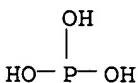
CM 6

CRN 107-21-1
CMF C2 H6 O2

HO—CH₂—CH₂—OH

L33 ANSWER 9 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1974:506273 CAPLUS
 DOCUMENT NUMBER: 81:106273
 TITLE: Method for producing polyesters
 INVENTOR(S): Chimura, Kazuya; Ito, Kazuo; Takashima, Shunichi;
 Shindo, Masao; Kawashima, Masao
 PATENT ASSIGNEE(S): Mitsubishi Rayon Co., Ltd.
 SOURCE: Jpn. Tokkyo Koho, 6 pp.
 CODEN: JAXXAD
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 48037760	B4	19731113	JP 1969-72241	19690911
PRIORITY APPLN. INFO.:			JP 1969-72241	19690911
ED	Entered STN: 12 May 1984			
AB	The addition of ethylene glycol phosphate [52012-13-2] or ethylene glycol phosphite [37228-47-0] to the reaction mixts. in the manufacture of poly(ethylene terephthalate) [25038-59-9] or its copolyesters using Mn compds. and Ge compds. as ester interchange and polymerization catalysts, resp., prevented ether bond formation and the escape by volatilization of the Ge compound from the system which previously made the reaction rate variable and uncontrollable. Bright transparent products were obtained when the atomic ratio of P to Mn and P to Ge were 3:6 and 0.5:1.7, resp. Germanium oxide [1310-53-8] and Mn salts of organic or inorg. acids were the preferred catalysts.			
IT	37228-47-0			
RL:	USES (Uses)	(stabilizer, for polyester manufacture in presence of manganese and germanium compound catalysts)		
RN	37228-47-0	CAPLUS		
CN	1,2-Ethanediol, phosphite (9CI)	(CA INDEX NAME)		
CM	1			
CRN	10294-56-1			
CMF	H3 O3 P			



CM 2
 CRN 107-21-1
 CMF C2 H6 O2

HO—CH₂—CH₂—OH

L33 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1974:506272 CAPLUS
 DOCUMENT NUMBER: 81:106272
 TITLE: Method for producing polyesters
 INVENTOR(S): Chimura, Kazuya; Ito, Kazuo; Takashima, Shunichi;
 Shindo, Masao; Kawashima, Masao
 PATENT ASSIGNEE(S): Mitsubishi Rayon Co., Ltd.
 SOURCE: Jpn. Tokkyo Koho, 6 pp.
 CODEN: JAXXAD
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 48037759	B4	19731113	JP 1969-72240	19690911
PRIORITY APPLN. INFO.:			JP 1969-72240	19690911

ED Entered STN: 12 May 1984

AB The yellowness and ether bond formation normally occurring in the manufacture of poly(ethylene terephthalate) [25038-59-9] or copolyesters using Mg compds. as ester interchange catalysts and Ge compds. as polymerization catalysts

was eliminated by addition of ethylene glycol phosphate [52012-13-2] or ethylene glycol phosphite [37228-47-0], thereby producing a product with good brightness and transparency. Magnesium acetate [142-72-3] and germanium oxide [1310-53-8] were the preferred catalysts and the atomic ratios of P to Mg and P to Ge were 1.0:5.0 and 0.5:1.7, resp.

IT 37228-47-0

RL: USES (Uses)
 (stabilizers, in polyester manufacture in presence of germanium and magnesium compound)

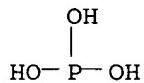
RN 37228-47-0 CAPLUS

CN 1,2-Ethanediol, phosphite (9CI) (CA INDEX NAME)

CM 1

CRN 10294-56-1

CMF H₃ O₃ P



CM 2

CRN 107-21-1

CMF C₂ H₆ O₂

HO—CH₂—CH₂—OH

L33 ANSWER 11 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1974:426206 CAPLUS
 DOCUMENT NUMBER: 81:26206
 TITLE: Polyesters
 INVENTOR(S): Chimura, Kazuchika; Ito, Kazuo; Takashima, Shunichi;
 Shindo, Tamao; Kawashima, Masao
 PATENT ASSIGNEE(S): Mitsubishi Rayon Co., Ltd.
 SOURCE: Jpn. Tokkyo Koho, 5 pp.
 CODEN: JAXXAD
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 48032194	B4	19731004	JP 1969-76915	19690929
PRIORITY APPLN. INFO.:			JP 1969-76915	19690929

ED Entered STN: 12 May 1984

AB A polyester with min. polyether links is prepared by transesterifying dimethyl terephthalate (I), alone or in combination with dimethyl isophthalate, with ethylene glycol (II) in the presence of calcium acetate [62-54-4] or calcium acetylacetone [51938-29-5] as transesterification catalyst, and polymerizing the product obtained with germanium dioxide [1310-53-8] as polymerization catalyst in the presence of II esters of H₃PO₄ or H₃PO₃ (P/Ca ratio = 0.5-5.0, P/Ge ratio = 0.5-1.7). Thus, I 1940, II 1500, and CaOAc 0.97 part were mixed at 145.deg. and the mixt was heated 3 hr at 145-220.deg., 45 min at 220-43.deg. and treated with 15.7 parts H₃PO₄ II ester (P/Ca = 1.02, P/Ge = 1.0) (obtained by heating 50 parts trimethyl phosphate [512-56-1] and 1000 parts II at 175.deg.) and 0.584 parts GeO₂. The whole mixt was heated 1 hr at 243-85.deg. and .sim.2 hr at 285.deg./2 mm to give transparent colorless poly(ethylene terephthalate) [25038-59-9] containing 0.78 wt % diethylene glycol units, compared with 1.38 weight % when the P ester was omitted.

IT 37228-47-0

RL: USES (Uses)

(polyester manufacture in presence of, to reduce polyether unit content)

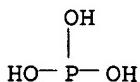
RN 37228-47-0 CAPLUS

CN 1,2-Ethanediol, phosphite (9CI) (CA INDEX NAME)

CM 1

CRN 10294-56-1

CMF H₃ O₃ P



CM 2

CRN 107-21-1

CMF C₂ H₆ O₂

HO—CH₂—CH₂—OH

L33 ANSWER 12 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1972:476427 CAPLUS
 DOCUMENT NUMBER: 77:76427
 TITLE: Fiber-forming polymeric substances for tires
 INVENTOR(S): Alexander, William; Cropp, Donald Thomas; Hartley,
 Graham Harry
 PATENT ASSIGNEE(S): Fiber Industries, Inc.
 SOURCE: Ger. Offen., 40 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2154504		19720510	DE 1971-2154504	19711102
CA 990433			CA	
FR 2112401			FR	
GB 1363935			GB	

PRIORITY APPLN. INFO.: US 1970-86299 19701102
 ED Entered STN: 12 May 1984
 AB The strength and serviceability of poly(ethylene terephthalate) (I) cord in
 tires were improved by addition of 13 organic phosphites to the spinning melt
 of

I (optionally, modified by Ph glycidyl ether) with an intrinsic viscosity
 (η) of 0.80-1.50 in a 0.2-3.1 atomic ratio of P to metal (from polymerization
 catalyst) in I. Thus, a 1.6:1 ethylene glycol-terephthalic acid mixture was
 stirred in a reactor at 250.deg./5.6 kg/cm N until the effluent from the
 esterification was constant, then with Sb2O3 at 280.deg./1 mm until I of
 η .geq.0.80 ($\text{o-C}_6\text{H}_4\text{OH}$, 25.deg.) was obtained. The above prepared I
 was melt spun with bis(2-ethylhexyl) hydrogen phosphite [3658-48-8] to
 give fiber containing 1.33:1 P-Sb atomic ratio which retained 76% strength
 after

heat-aging 8 hr at 176.7.deg. in a rubber vulcanizate.

IT 37228-47-0

RL: USES (Uses)
 (polyester fibers containing, for tire cords)

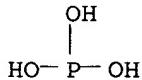
RN 37228-47-0 CAPLUS

CN 1,2-Ethanediol, phosphite (9CI) (CA INDEX NAME)

CM 1

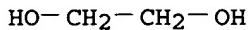
CRN 10294-56-1

CMF H3 O3 P



CM 2

CRN 107-21-1
 CMF C2 H6 O2

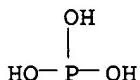


L33 ANSWER 13 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1962:25901 CAPLUS
 DOCUMENT NUMBER: 56:25901
 ORIGINAL REFERENCE NO.: 56:4978a-c
 TITLE: Polyurethan foams containing primary 2-hydroxyethyl phosphite
 INVENTOR(S): Kaplan, Melvin; Koral, Marvin
 PATENT ASSIGNEE(S): Allied Chemical Corp.
 DOCUMENT TYPE: Patent
 LANGUAGE: Unavailable
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3007884		19611107	US 1959-819243	19590610
PRIORITY APPLN. INFO.:			US	19590610
ED Entered STN: 22 Apr 2001				
AB Addition of primary 2-hydroxyethyl phosphite (I) into mixts. for polyurethan foams imparts fire retardancy while retaining the desirable qualities of the product. The I is chemical bonded by treating with other polymerizable components, giving a high degree of permanency. The acidic nature of I also permits copolymerization of the resin without addition of the usual basic or amine catalysts. Thus, a foam formulation was made from PFR-6 (adipic acid-tris(hydroxymethyl)propane based polyester) 100, Silicone X-521 (siloxane-oxyalkylene block copolymer) 1, I 30, Nacconate 1080H (prepolymer of 100 parts of 80% 2,4,- and 20% 2,6-tolylene diisocyanates, and 10 parts of hexanetriol) 108, and CC13F 25 parts by weight The foam had a d. of 1.7 lb./cu. ft. and a fire retardancy test of 12 sec. A similar foam prepared without I but containing 30 parts of Culluflex CEF [(ClCH ₂ CH ₂ O) ₃ PO] and 1 part of N-methylmorpholine had a d. of 2.9 and was entirely consumed in the fire-retardancy test.				
IT 37228-47-0, Ethylene glycol, phosphite (fire-resistant polyurethan foams containing)				
RN 37228-47-0 CAPLUS				
CN 1,2-Ethanediol, phosphite (9CI) (CA INDEX NAME)				

CM 1

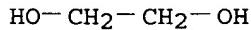
CRN 10294-56-1
 CMF H3 O3 P



CM 2

CRN 107-21-1

CMF C2 H6 O2



L33 ANSWER 14 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1961:75762 CAPLUS
 DOCUMENT NUMBER: 55:75762
 ORIGINAL REFERENCE NO.: 55:14307h-i
 TITLE: 2-Hydroxyethyl phosphite
 INVENTOR(S): Koral, Marvin
 PATENT ASSIGNEE(S): Allied Chemical Corp.
 DOCUMENT TYPE: Patent
 LANGUAGE: Unavailable
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2974159	-----	19610307	US 1959-819237	19590610

ED Entered STN: 22 Apr 2001

AB The title compound (I) was prepared as follows: PCl3 1520 was added slowly to a solution of ethylene glycol (II) 2055 in C6H6 1000 parts, with the temperature

kept at 10-15°, and the evolved HCl swept out with N. After stirring for further 16 hrs., the C6H6 layer was separated and distilled to remove ethylene chlorohydrin and II. The residue was treated with decolorizing C to yield I (97%).

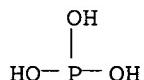
IT 37228-47-0, Ethylene glycol, phosphite
(preparation of)

RN 37228-47-0 CAPLUS

CN 1,2-Ethanediol, phosphite (9CI) (CA INDEX NAME)

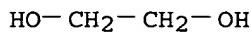
CM 1

CRN 10294-56-1
 CMF H3 O3 P



CM 2

CRN 107-21-1
 CMF C2 H6 O2



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153; d que nos 156
FILE REGISTRY ENTERED AT 11:28:20 ON 21 JUN 2006
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 20 JUN 2006 HIGHEST RN 888507-19-5
DICTIONARY FILE UPDATES: 20 JUN 2006 HIGHEST RN 888507-19-5

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 6, 2006

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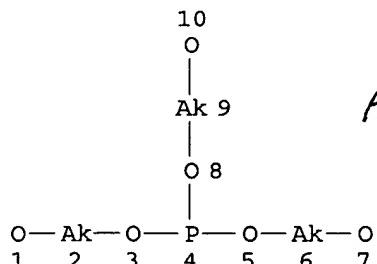
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* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added,      *
* effective March 20, 2005. A new display format, IDERL, is now        *
* available and contains the CA role and document type information.   *
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Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

•LS5• STR



Ak = alkyl ; no further substitutions, containing at least 2 carbons

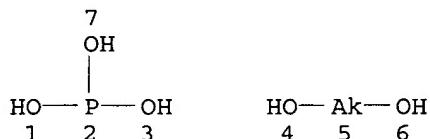
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CONNECT IS E2	RC AT	6
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 DEFAULT ECLEVEL IS LIMITED
 ECOUNT IS M2 C AT 2
 ECOUNT IS M2 C AT 6
 ECOUNT IS M2 C AT 9

GRAPH ATTRIBUTES:
 RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 10

STEREO ATTRIBUTES: NONE
 L7 STR



NODE ATTRIBUTES:
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 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED
 ECOUNT IS M2 C AT 5

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 RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 7

STEREO ATTRIBUTES: NONE
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*Search alone locking
 for either the structure
 of L5 or L7*

FILE 'CAPLUS' ENTERED AT 11:28:21 ON 21 JUN 2006
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 FILE LAST UPDATED: 20 Jun 2006 (20060620/ED)

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 'OBI' IS DEFAULT SEARCH FIELD FOR 'CAPLUS' FILE

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L7          STR
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L21         9 SEA FILE=REGISTRY SUB=L19 SSS FUL L14
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L24         249 SEA FILE=CAPLUS ABB=ON L23
L26         2 SEA FILE=REGISTRY ABB=ON ("TETRAISOPROPYL TITANATE"/CN OR
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L31         4 SEA FILE=CAPLUS ABB=ON L24 AND L30
  
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           OR 865710-69-6/B1 OR 865710-71-0/B1 OR 865710-73-2/B1 OR
           865710-75-4/B1 OR 865710-77-6/B1 OR 865710-78-7/B1 OR 865710-79
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 L56 4 SEA FILE=CAPLUS ABB=ON (L40 OR L43) AND L35 AND L54

=> s 129,131,153,156 not 133

L57 14 (L29 OR L31 OR L53 OR L56) NOT L33 previously printed

=> d ibib ed abs hitstr 157 1-14; fil hom

L57 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2005:1351070 CAPLUS
 DOCUMENT NUMBER: 144:89108
 TITLE: Process for preparation of stabilized filled polyolefins
 INVENTOR(S): Widjanta, I. Made; Callierotti, Corrado
 PATENT ASSIGNEE(S): P.T. Catur Karya Manunggal, Indonesia; Great Lakes Chemical (Europe) GmbH
 SOURCE: PCT Int. Appl., 30 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005123822	A1	20051229	WO 2005-GB2366	20050616
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

PRIORITY APPLN. INFO.: GB 2004-13740 A 20040619

ED Entered STN: 30 Dec 2005

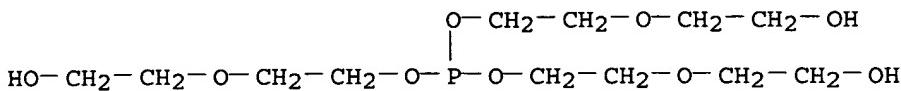
AB Title process comprises (a) polymerizing olefin monomer(s) to obtain polyolefin or copolymer in non-extruded particle/powder form; (b) depositing liquid stabilizer mixture of phosphate/phosphonite stabilizer, phenolic antioxidant and optionally acid scavenger onto polyolefin particles/powder surface in first mixer; (c) compounding 1-30% (based on polyolefin weight) polymer filler in second mixer with moist stabilizer coated polyolefin particles/powder obtained from (b); the steps (b) and (c) being conducted at 50-120° with neither of the first or second mixers being an extruder.

IT 36788-39-3, Tris(dipropylene glycol)phosphite

RL: TEM (Technical or engineered material use); USES (Uses)
 (stabilizer; process for preparation of stabilized filled polyolefins)

RN 36788-39-3 CAPLUS

CN 3,6,8,11-Tetraoxa-7-phosphatridecane-1,13-diol, 7-[2-(2-hydroxymethylethoxy)methylethoxy]tetramethyl- (9CI) (CA INDEX NAME)



6 (D1-Me)

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L57 ANSWER 2 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2003:363777 CAPLUS

DOCUMENT NUMBER: 139:230851

TITLE: Phosphite dendrimers and their organometallic derivatives

AUTHOR(S): Poniatowska, Elzbieta; Salamonczyk, Grzegorz M.

CORPORATE SOURCE: Centre of Molecular and Macromolecular Studies, Department of Heteroorganic Chemistry, The Polish Academy of Sciences, Lodz, 90-363, Pol.

SOURCE: Tetrahedron Letters (2003), 44(23), 4315-4317

CODEN: TELEAY; ISSN: 0040-4039

PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 139:230851

ED Entered STN: 13 May 2003

AB The synthesis of new classes of dendrimers, boranophosphate triesters and phosphite-based dendrimers has been accomplished. The latter compds. have been successfully transformed into their palladium(II) and rhodium(I) complexes, possessing metal derivs. attached to the branching points within the dendrimer.

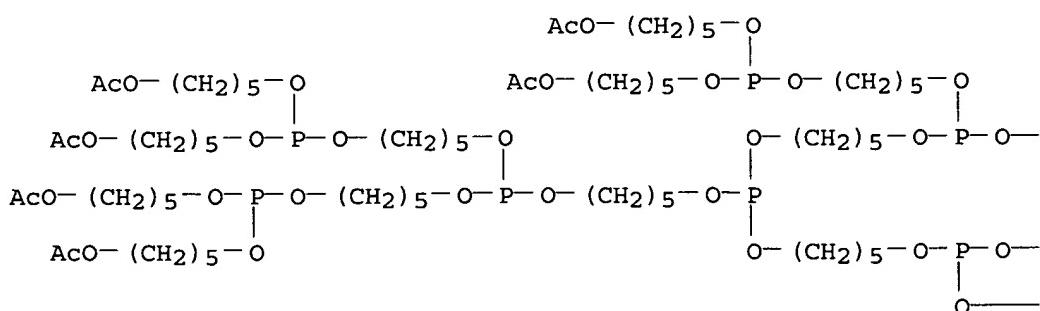
IT 591247-50-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of phosphite dendrimers and their palladium and rhodium complexes)

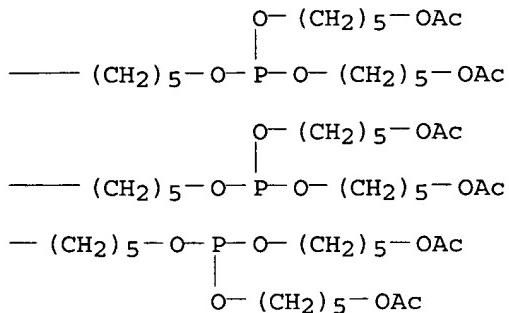
RN 591247-50-6 CAPLUS

CN Phosphorous acid, phosphinidynetris(oxy-5,1-pentanediyl) hexakis[7-[[5-(acetoxy)pentyl]oxy]-15-oxo-6,8,14-trioxa-7-phosphahexadec-1-yl] ester (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B



REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

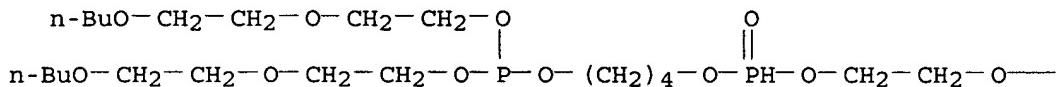
L57 ANSWER 3 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1999:250396 CAPLUS
 DOCUMENT NUMBER: 130:338873
 TITLE: Vinyl chloride resin compositions with excellent thermal stability, transparency, and weather resistance
 INVENTOR(S): Katsuta, Koji; Noguchi, Katsutoshi; Fujii, Takayuki
 PATENT ASSIGNEE(S): Katsuta Kako K. K., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 15 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11106586	A2	19990420	JP 1997-306281	19971003
PRIORITY APPLN. INFO.:			JP 1997-306281	19971003
OTHER SOURCE(S):	MARPAT	130:338873		

ED Entered STN: 23 Apr 1999
 AB The compns., useful for agricultural films, contain (A) [Al₂(Li_{1-X}M_X)₂(OH)₆]₂(SiYO₂Y+1).mH₂O (M = bivalent metal; 0 ≤ m < 5; 0 ≤ X < 1; Y = 2-4), (B) [R₂P(O)(OR₁)O]₂M' and/or R₃OP(O)O₂M' (R₁, R₃ = C₁₋₃₀ alkyl, arylalkyl, aryl, alkylaryl; R₂ = H, R₄O; R₄ = C₁₋₃₀ alkyl, arylalkyl, aryl, alkylaryl; M' = alkaline earth metal, Zn), and (C) organic phosphorous acid compds. The compns. show excellent stability especially when the phosphorous acid compds. having ≥1 OH directly bonded to P are used as (C). Thus, a sheet made from a composition of PVC 100, DOP 45, tricresyl phosphate 5, epoxidized soybean oil 2.0, Zn stearate 0.3, Ba nonylphenate 0.1, Ba stearate 0.2, benzoyl acetyl methane 0.1, methylenebisstearamide 0.5, 1,3,5-trimethyl-2,4,6-tris(3,5-di-tert-butyl-4-hydroxybenzyl)benzene 0.1, bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate 0.1, sorbitan monopalmitate 1.5, Al₄.0Li₂.0(OH)₁₂Si₃.007.0.3.OH₂O 0.5, Ca monododecyl phosphate 0.5, and tridecyl phosphite 0.5 part showed blackening time 115 min at 190° and good transparency and thermal discoloration resistance and weather resistance.

IT 84019-84-1
 RL: AGR (Agricultural use); MOA (Modifier or additive use); BIOL (Biological study); USES (Uses)
 (vinyl chloride resin compns. with good thermal stability, transparency, discoloration resistance, and weather resistance for agricultural films)
 RN 84019-84-1 CAPLUS
 CN Phosphorous acid, bis[2-(2-butoxyethoxy)ethyl] 6-oxido-5,7,10,13-tetraoxa-6-phosphheptadec-1-yl ester (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B

— CH₂—CH₂—OBu-n

L57 ANSWER 4 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1999:250394 CAPLUS
 DOCUMENT NUMBER: 130:338872
 TITLE: Vinyl chloride resin compositions with excellent thermal stability, transparency, and weather resistance
 INVENTOR(S): Katsuta, Koji; Katagiri, Toshio; Fujii, Takayuki
 PATENT ASSIGNEE(S): Katsuta Kako K. K., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 14 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11106584	A2	19990420	JP 1997-306279	19971003
PRIORITY APPLN. INFO.:			JP 1997-306279	19971003
OTHER SOURCE(S):	MARPAT	130:338872		

ED Entered STN: 23 Apr 1999
 AB The compns., useful for agricultural films, contain (A) OP(OR1)(OR2)(OR3) (R1-3 = alkyl, arylalkyl, aryl, monoalkylaryl, at least one of R1-3 is dialkylaryl), (B) phosphorous acid and/or phosphoric acid compds. having ≥1 OH bonded directly to P, and (C) [R5P(O)(OR4)O]2M and/or R6OP(O)O2M (R4, R6 = C1-30 alkyl, arylalkyl, aryl, alkylaryl; R5 = H, R7O; R7 = C1-30 alkyl, arylalkyl, aryl, alkylaryl; M = alkaline earth metal, Zn). Thus, a sheet made from a composition of PVC 100, DOP 45, epoxidized soybean oil 2.0, Zn stearate 0.5, Ba nonylphenate 0.2, Ba stearate 0.3, dioctyl monoxylyl phosphate 5.0, (C₃H₇O)₂POH 0.5, and Ba di-Bu phosphate 0.2 part showed blackening time 85 min at 190° and good transparency and thermal discoloration resistance.

IT 84019-84-1

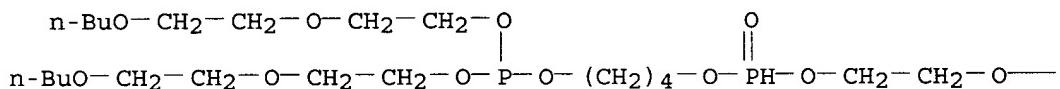
RL: AGR (Agricultural use); MOA (Modifier or additive use); BIOL (Biological study); USES (Uses)

(vinyl chloride resin compns. with good thermal stability, transparency, discoloration resistance, and weather resistance for agricultural films)

RN 84019-84-1 CAPLUS

CN Phosphorous acid, bis[2-(2-butoxyethoxy)ethyl] 6-oxido-5,7,10,13-tetraoxa-6-phosphheptadec-1-yl ester (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B

$$-\text{CH}_2-\text{CH}_2-\text{OBu}-n$$

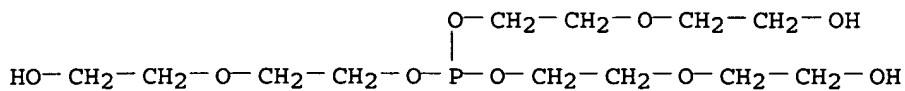
L57 ANSWER 5 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1998:289876 CAPLUS
DOCUMENT NUMBER: 128:283310
TITLE: Synthesis of phosphite fireproofing agent by transesterification
INVENTOR(S): Liu, Yunxia
PATENT ASSIGNEE(S): Liu, Yunxia, Peop. Rep. China
SOURCE: Faming Zhanli Shenqing Gongkai Shuomingshu, 5 pp.
CODEN: CNXXEV
DOCUMENT TYPE: Patent
LANGUAGE: Chinese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CN 1139144	A	19970101	CN 1996-104891	19960515

PRIORITY APPLN. INFO.: CN 1996-104891 19960515
ED Entered STN: 20 May 1998
AB The fireproofing agent useful nonwoven fabric, synthetic leather etc. is synthesized by transesterification of a triaryl phosphite with an alc. such as dipropylene glycol using, e.g., Na phenoxide as catalyst. Reaction of tri-Ph phosphite with dipropylene glycol using Na phenoxide as catalyst gave tris(dipropylene glycol) phosphite with 97.7% yield.

IT 17363-77-8P 26702-54-5P 36788-39-3P,
Tris(dipropylene glycol) phosphite 205876-08-0P
RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP
(Preparation); USES (Uses)
(synthesis of phosphite fireproofing agent by transesterification)

RN 17363-77-8 CAPLUS
CN 3,6,8,11-Tetraoxa-7-phosphatridecane-1,13-diol, 7-[2-(2-hydroxymethoxy)ethoxy]- (9CI) (CA INDEX NAME)



RN 26702-54-5 CAPLUS

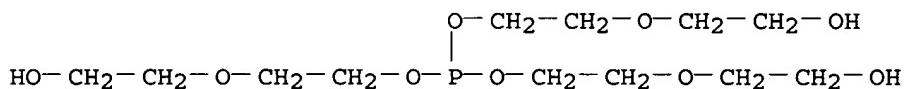
CN 3,6,8,11-Tetraoxa-7-phosphatridecane-1,13-diol, 7-[2-(2-hydroxymethylethoxy)methylethoxy]tetramethyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 36788-39-3

CMF C18 H39 O9 P

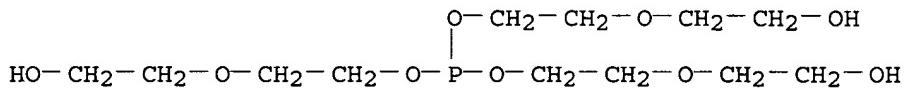
CCI IDS



6 (D1-Me)

RN 36788-39-3 CAPLUS

CN 3,6,8,11-Tetraoxa-7-phosphatridecane-1,13-diol, 7-[2-(2-hydroxymethylethoxy)methylethoxy]tetramethyl- (9CI) (CA INDEX NAME)



6 (D1-Me)

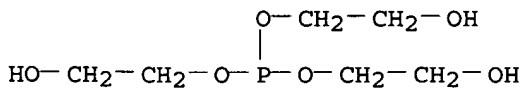
RN 205876-08-0 CAPLUS

CN 1,2-Ethanediol, phosphite (3:1), homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 761-55-7

CMF C6 H15 O6 P



L57 ANSWER 6 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1994:606894 CAPLUS

DOCUMENT NUMBER: 121:206894

TITLE: Polyolefin compositions and blocking-resistant films therefrom

INVENTOR(S) : Tokutake, Atsuo; Sakuma, Hisao; Shibayama, Motoyuki; Yoshikawa, Toshitsune; Noguchi, Katsutoshi; Sato, Fumio

PATENT ASSIGNEE(S) : Nippon Petrochemicals Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 15 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06087984	A2	19940329	JP 1992-277630	19920904
PRIORITY APPLN. INFO.:			JP 1992-277630	19920904

ED Entered STN: 29 Oct 1994

AB The title compns. with good discoloration and heat resistance and low corrosivity to metals contain P compds.
 $(R1O)(R2O)P[OYOP(OR4)]_nOR3$ ($R1-4 = H$, hydrocarbyl, O-containing hydrocarbyl; Y = polyol residue, polyhydroxy phenol residue; n = 1-10), hydrotalcites, and blocking preventers and optionally lubricants and antioxidants. A 96:4 ethylene-1-butene copolymer composition contained
 $(C9H19C6H4O)_2P[OC3H6OC3H6OP(OC6H4C9H19)]_4OC6H4C9H19$ 0.1, hydrotalcite 0.05, Silton JC30 0.45, and erucamide 0.12%.

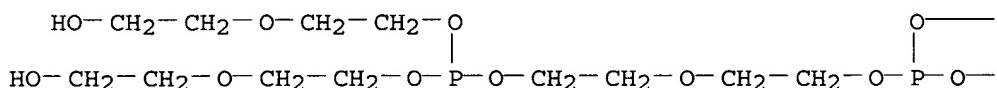
IT 40305-86-0

RL: USES (Uses)
 (polyolefin films containing, blocking- and heat- and discoloration-resistant, noncorrosive)

RN 40305-86-0 CAPLUS

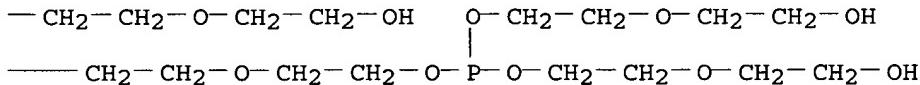
CN 3,6,8,11,14,16,19,22,24,27-Decaoxa-7,15,23-triphosphanonacosane-1,29-diol,
 7,15,23-tris[2-(2-hydroxymethylethoxy)methylethoxy]octamethyl- (9CI) (CA
 INDEX NAME)

PAGE 1-A



14 (D1-Me)

PAGE 1-B

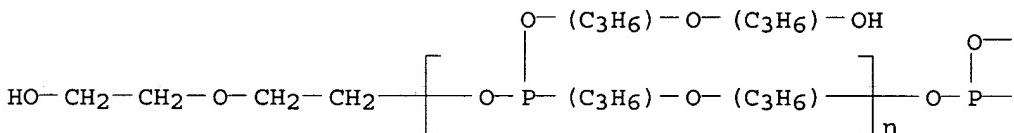


L57 ANSWER 7 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1994:165900 CAPLUS
 DOCUMENT NUMBER: 120:165900
 TITLE: Stabilized polyolefin compositions
 INVENTOR(S) : Tokutake, Atsuo; Shibayama, Motoyuki; Yoshikawa, Toshitsune; Noguchi, Katsutoshi; Sato, Fumio

PATENT ASSIGNEE(S) : Nippon Petrochemicals Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 05214175	A2	19930824	JP 1992-62753	19920204
PRIORITY APPLN. INFO.:			JP 1992-62753	19920204
OTHER SOURCE(S):	MARPAT	120:165900		
ED	Entered STN:	02 Apr 1994		
AB	The title compns., showing good stability against light, O, yellowing, and heat and reduced metal corrosion, contain (A) ≥ 1 P compound $(R1O)P(OR2)[OYOP(OR4)]lOR3$ [I; $R1-4 = H$, (O-containing) hydrocarbyl; Y = (O-containing) hydrocarbon; l ≥ 1], (B) hydrotalcites, and optionally (C) fatty acids, their metal salts, and/or hydroxy fatty acid metal salts and (D) hindered phenol and/or thioether antioxidants. Thus, 1-butene-ethylene copolymer containing 0.1% I ($R1-4 = Ph$, Y = C ₃ H ₆ , l = 4) and 0.10% hydrotalcite gave a pressed sheet with yellowing index -2.1 and showed torque increase in 16.0 min when kneaded at 210°.			
IT	153724-05-1			
RL:	USES (Uses)	(stabilizers, against heat and light and discoloration, for polyolefins)		
RN	153724-05-1	CAPLUS		
CN	Poly[oxy{[2-(2-hydroxymethylethoxy)methylethoxy]phosphinidene}(methyl-1,2-ethanediyl)oxy(methyl-1,2-ethanediyl)], α -[2-(2-hydroxymethylethoxy)methylethyl]- ω -[[bis[2-(2-hydroxymethylethoxy)methylethoxy]phosphino]oxy]- (9CI) (CA INDEX NAME)			

PAGE 1-A



6 (D1-Me)

PAGE 1-B

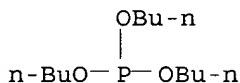
— CH₂—CH₂—O—CH₂—CH₂—OH
 — O—CH₂—CH₂—O—CH₂—CH₂—OH

L57 ANSWER 8 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1990:200003 CAPLUS
 DOCUMENT NUMBER: 112:200003
 TITLE: Method for lowering the melt crystallization temperature of an arylene sulfide polymer

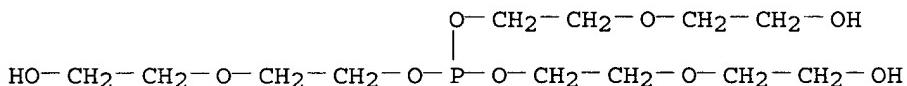
INVENTOR(S): with organic phosphite composition
 Liang, Yeon F.
 PATENT ASSIGNEE(S): Phillips Petroleum Co., USA
 SOURCE: U.S., 5 pp.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4892930	A	19900109	US 1988-226029	19880729
PRIORITY APPLN. INFO.:			US 1988-226029	19880729

ED Entered STN: 26 May 1990
 AB The melt crystallization temperature (T_{mc}) of an arylene sulfide polymer is reduced by the addition of an effective amount of organic phosphites. Thus, polyphenylene sulfide (I) containing 1% di-Ph phosite had T_{mc} 175°, vs. 212, for I alone.
 IT 102-85-2, Tributyl phosphite 36788-39-3,
 Tris(dipropylene glycol) phosphite
 RL: USES (Uses)
 (polythiophenlenes containing, for lowering melt crystallization temperature)
 RN 102-85-2 CAPLUS
 CN Phosphorous acid, tributyl ester (8CI, 9CI) (CA INDEX NAME)



RN 36788-39-3 CAPLUS
 CN 3,6,8,11-Tetraoxa-7-phosphatridecane-1,13-diol, 7-[2-(2-hydroxymethylethoxy)methylethoxy]tetramethyl- (9CI) (CA INDEX NAME)



6 (D1-Me)

L57 ANSWER 9 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1984:492144 CAPLUS
 DOCUMENT NUMBER: 101:92144
 TITLE: Stabilizers for halogen-containing resins
 PATENT ASSIGNEE(S): Katsuta Kako Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 59038250	A2	19840302	JP 1982-148645	19820827
JP 03048222	B4	19910723		
PRIORITY APPLN. INFO.:			JP 1982-148645	19820827

ED Entered STN: 15 Sep 1984

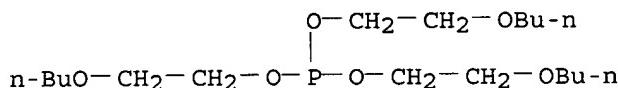
AB Liquid stabilizers contain Zn and alkaline earth metal salts of C6-18 organic acids, organic H₃PO₃ esters, H₃PO₃ or H₃PO₄ compds. contg ≥1 P-OH linkage, organotin compds., N-containing compds., and solvents. Thus, a liquid stabilizer was prepared from calcium octoate [6107-56-8] 10, zinc octoate [557-09-5] 10, dibutyltin dilaurate [77-58-7] 2, triisopropanolamine [122-20-3] 0.5, dioctyl phthalate (I) [117-81-7] 11.5, oleyl alc. [143-28-2] Et diglycol [111-90-0] 3, PCOC₂H₄OEt) (OC₂H₄OC₂H₄OEt) (OC₂H₄OC₂H₄OEt) (II) [91433-53-3] 30, and (C₁₀H₂₁O)₂POH (III) [19931-58-9] 30 parts. Sheets were prepared from PVC [9002-86-2] 100, I 50, an epoxidized soybean oil 2.0, barium stearate [6865-35-6] 0.4 zinc stearate [557-05-1] 0.6, and the liquid stabilizer 1.5 parts and had heat stability 65 min at 180°, good transparency, slight discoloration, weather resistance 1300 h, and slight blooming, compared with 60, slight turbidity, discoloration, 850, and bleeding, resp., for sheets using a liquid stabilizers containing 60 parts II and no III.

IT 2718-67-4 4486-47-9 32429-22-4
82349-74-4 91433-48-6 91433-54-4

RL: USES (Uses)
(liquid stabilizer compns., for PVC)

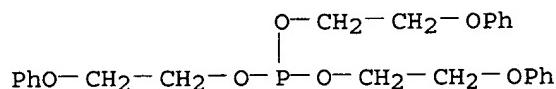
RN 2718-67-4 CAPLUS

CN Ethanol, 2-butoxy-, phosphite (3:1) (8CI, 9CI) (CA INDEX NAME)



RN 4486-47-9 CAPLUS

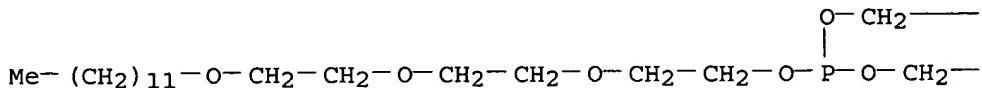
CN Ethanol, 2-phenoxy-, phosphite (3:1) (8CI, 9CI) (CA INDEX NAME)



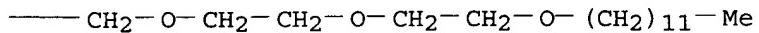
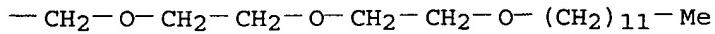
RN 32429-22-4 CAPLUS

CN Ethanol, 2-[2-[2-(dodecyloxy)ethoxy]ethoxy]-, phosphite (3:1) (8CI, 9CI)
(CA INDEX NAME)

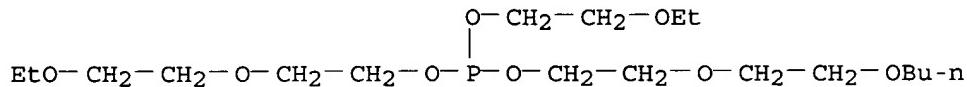
PAGE 1-A



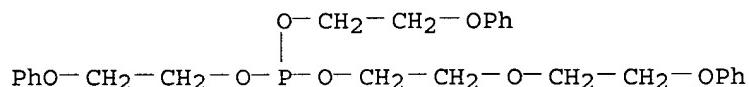
PAGE 1-B



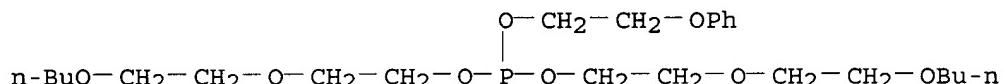
RN 82349-74-4 CAPLUS

CN Phosphorous acid, 2-(2-butoxyethoxy)ethyl 2-(2-ethoxyethoxy)ethyl
2-ethoxyethyl ester (9CI) (CA INDEX NAME)

RN 91433-48-6 CAPLUS

CN Phosphorous acid, 2-(2-phenoxyethoxy)ethyl bis(2-phenoxyethyl) ester (9CI)
(CA INDEX NAME)

RN 91433-54-4 CAPLUS

CN Phosphorous acid, bis[2-(2-butoxyethoxy)ethyl] 2-phenoxyethyl ester (9CI)
(CA INDEX NAME)

L57 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1982:53291 CAPLUS

DOCUMENT NUMBER: 96:53291

TITLE: Electrical tree and water tree resistant polymer
compositions

INVENTOR(S): Maringer, Melvin F.; Barlow, Anthony

PATENT ASSIGNEE(S): National Distillers and Chemical Corp., USA

SOURCE: U.S., 8 pp. Cont.-in-part of U.S. Ser. No. 58,878.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4299713	A	19811110	US 1980-161932	19800623
CA 1161589	A1	19840131	CA 1980-355215	19800702
AU 8060283	A1	19820128	AU 1980-60283	19800709
AT 8003726	A	19821215	AT 1980-3726	19800717
AT 371830	B	19830810		

BE 884394	A1	19810119	BE 1980-201467	19800718
DK 8003102	A	19810120	DK 1980-3102	19800718
FI 8002284	A	19810120	FI 1980-2284	19800718
NO 8002166	A	19810120	NO 1980-2166	19800718
SE 8005265	A	19810120	SE 1980-5265	19800718
NL 8004164	A	19810121	NL 1980-4164	19800718
BR 8004510	A	19810203	BR 1980-4510	19800718
FR 2461734	A1	19810206	FR 1980-15919	19800718
FR 2461734	B1	19831118		
JP 56020057	A2	19810225	JP 1980-97708	19800718
ES 494311	A1	19810701	ES 1980-494311	19800718
GB 2055854	A	19810311	GB 1980-23773	19800721
GB 2128622	A1	19840502	GB 1982-35065	19821208
GB 2128622	B2	19841031		
PRIORITY APPLN. INFO.:			US 1979-58878	A2 19790719
			GB 1980-23773	A3 19800721

OTHER SOURCE(S) : MARPAT 96:53291

ED Entered STN: 12 May 1984

AB Unfilled polymeric elec. insulators for high-voltage transmission have good resistance to elec. and water treeing when organic silanes containing alkoxyalkoxy groups, organic phosphites, or organic Ti compds. are added.

Thus,

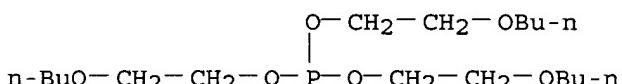
polyethylene [9002-88-4] samples containing 2% vinyltris(2-methoxyethoxy)silane [1067-53-4] showed no failures after >12,700 min in a double needle test and relative water tree size 0.23 compared with failure of 50% of the samples after 80 min and 1, resp., for a control.

IT 2718-67-4 6199-01-5

RL: USES (Uses)
(polymeric elec. insulators containing, treeing-resistant)

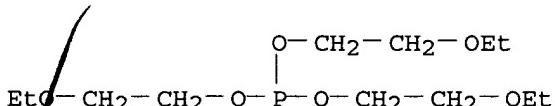
RN 2718-67-4 CAPLUS

CN Ethanol, 2-butoxy-, phosphite (3:1) (8CI, 9CI) (CA INDEX NAME)



RN 6199-01-5 CAPLUS

CN Ethanol, 2-ethoxy-, phosphite (3:1) (9CI) (CA INDEX NAME)



V 57 ANSWER 11 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1981:140721 CAPLUS

DOCUMENT NUMBER: 94:140721

TITLE: Polymer compositions with improved
resistance to water treeing and electrical treeing and
suitable for insulating electrical cables

INVENTOR(S): Maringer, Melvin Frederick; Barlow, Anthony

PATENT ASSIGNEE(S): National Distillers and Chemical Corp., USA

SOURCE: Ger. Offen., 31 pp.

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3026586	A1	19810205	DE 1980-3026586	19800714
CA 1161589	A1	19840131	CA 1980-355215	19800702
AU 8060283	A1	19820128	AU 1980-60283	19800709
AT 8003726	A	19821215	AT 1980-3726	19800717
AT 371830	B	19830810		
BE 884394	A1	19810119	BE 1980-201467	19800718
DK 8003102	A	19810120	DK 1980-3102	19800718
FI 8002284	A	19810120	FI 1980-2284	19800718
NO 8002166	A	19810120	NO 1980-2166	19800718
SE 8005265	A	19810120	SE 1980-5265	19800718
NL 8004164	A	19810121	NL 1980-4164	19800718
BR 8004510	A	19810203	BR 1980-4510	19800718
FR 2461734	A1	19810206	FR 1980-15919	19800718
FR 2461734	B1	19831118		
JP 56020057	A2	19810225	JP 1980-97708	19800718
ES 494311	A1	19810701	ES 1980-494311	19800718
GB 2055854	A	19810311	GB 1980-23773	19800721
GB 2128622	A1	19840502	GB 1982-35065	19821208
GB 2128622	B2	19841031		
			US 1979-58878	A 19790719
			GB 1980-23773	A3 19800721

PRIORITY APPLN. INFO.:

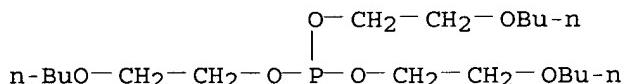
ED Entered STN: 12 May 1984
 AB Organic compds. of Si, Sn, Ti, P, or B are treeing inhibitors for polymers such as polyethylene (I) [9002-88-4] as elec. insulators. Thus, I is milled at 149° with 2% (MeOCH₂CH₂O)₃SiCH:CH₂ (II) [1067-53-4] to give an elec. insulator resistant to elec. treeing for >12,700 min in an accelerated test, compared with 80 min without II. Water treeing was 23% of that without II.

IT 2718-67-4 6199-01-5

RL: USES (Uses)
(treeing inhibitors, for polyethylene insulators)

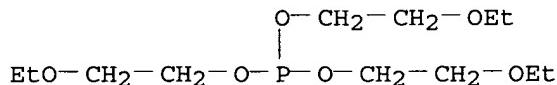
RN 2718-67-4 CAPLUS

CN Ethanol, 2-butoxy-, phosphite (3:1) (8CI, 9CI) (CA INDEX NAME)



RN 6199-01-5 CAPLUS

CN Ethanol, 2-ethoxy-, phosphite (3:1) (9CI) (CA INDEX NAME)



L57 ANSWER 12 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1979:153036 CAPLUS

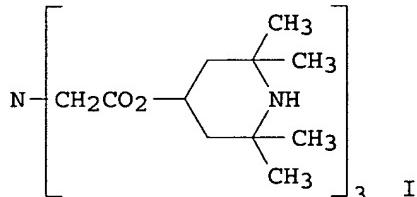
DOCUMENT NUMBER: 90:153036

TITLE: Stabilizers for synthetic polymers comprising 2,2,6,6,-tetramethyl-4-piperidyl carboxylic

acid ester, a triphosphite, and an acid phosphite or salt
INVENTOR(S) : Minagawa, Motonobu; Kubota, Naohiro; Shibata, Toshihiro
PATENT ASSIGNEE(S) : Argus Chemical Corp., USA
SOURCE : U.S., 34 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

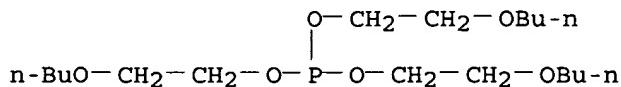
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4110306	A	19780829	US 1976-744053	19761122
JP 52066551	A2	19770602	JP 1975-144357	19751201
JP 53038170	B4	19781013		

PRIORITY APPLN. INFO.: JP 1975-144357 A 19751201
ED Entered STN: 12 May 1984
GI



AB Stabilizers for vinyl polymers, polyamides, and polyesters contained triphosphites 10-69.5, acid phosphites or their metal salts 0.5-10, and 2,2,6,6-tetramethyl-4-piperidyl carboxylic esters 30-89.5%. Thus, a film prepared from PVC [9002-86-2] 100, DOP 50, Ca stearate 1.0, Zn stearate 0.1, I [64022-57-7] 0.7, tetra(tridecyl) 4,4'-butylidenebis[3-methyl-6-tert-butylphenol] diphosphite [13003-12-8] 1.2, and diphenyl hydrogen phosphite Zn salt [64022-68-0] 0.1 part failed after 940 h in a Weather-Ometer and after 120 min in a forced air oven at 175°, compared with 280 and 45, resp., for a control.

IT 2718-67-4
RL: PEP (Physical, engineering or chemical process); PROC (Process)
(heat and light stabilizers, for polymers)
RN 2718-67-4 CAPLUS
CN Ethanol, 2-butoxy-, phosphite (3:1) (8CI, 9CI) (CA INDEX NAME)



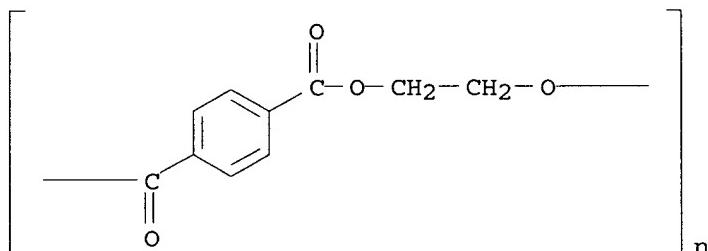
L57 ANSWER 13 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1973:527299 CAPLUS
DOCUMENT NUMBER: 79:127299
TITLE: Polyester compositions with permanent antistatic properties
INVENTOR(S) : Chimura, Kazuya; Iwata, Hiroshi; Kagawa, Kazunori;

PATENT ASSIGNEE(S) : Ishida, Kazuhiko
 Mitsubishi Rayon Co., Ltd.
 SOURCE: Ger. Offen., 20 pp.
 CODEN: GWXXBX

DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2239466	A1	19730712	DE 1972-2239466	19720810
DE 2239466	B2	19750605		
DE 2239466	C3	19760122		
JP 48068644	A2	19730919	JP 1971-104316	19711222
JP 51044978	B4	19761201		
GB 1408296	A	19751001	GB 1972-38176	19720816
US 3962185	A	19760608	US 1974-495361	19740807
PRIORITY APPLN. INFO.:			JP 1971-104316	A 19711222
			US 1972-277573	A2 19720803

- ED Entered STN: 12 May 1984
 AB Polyethylene glycol ether-phosphite esters such as I are added to poly(ethylene terephthalate) (II) [25038-59-9] to give antistatic polyester fibers and moldings. Thus, the antistatic properties of II fibers containing 2% I increased only slightly (from 2100 V to 2350 V) during 5 launderings with anionic detergent, compared with an increase from 2500 V to 8000 V for II fibers containing 2% [m-MeC₆H₄O(CH₂CH₂O)₁₅]₃P instead of I.
 IT 25038-59-9, uses and miscellaneous
 RL: USES (Uses)
 (antistatic agents for, polyethylene glycol phosphites as)
 RN 25038-59-9 CAPLUS
 CN Poly(oxy-1,2-ethanediylloxycarbonyl-1,4-phenylene carbonyl) (9CI) (CA INDEX NAME)



- IT 42559-47-7 42605-27-6
 RL: USES (Uses)
 (antistatic agents, for poly(ethylene terephthalate))
 RN 42559-47-7 CAPLUS
 CN Phosphorous acid, methylenebis[phenylene(3,6,9,12-tetraoxatetradecane-14,1-diyl)] tetrakis(3,6,9,12,15-pentaoxaheptacos-1-yl) ester (9CI) (CA INDEX NAME)

PAGE 1-A



$$1/2 [D1 - CH_2 - D1]$$

Me—(CH₂)₁₁—O—CH₂—CH₂—O—CH₂—CH₂—O—CH₂—CH₂—O—CH₂—CH₂—O—

PAGE 1-B

O—CH₂—CH₂—O—CH₂—CH₂—O—CH₂—CH₂—O—CH₂—CH₂—O—

—CH₂—CH₂—O—P—O—CH₂—CH₂—O—CH₂—CH₂—O—CH₂—CH₂—O—CH₂—CH₂—

PAGE 1-C

—CH₂—CH₂—O—D1

—O—CH₂—CH₂—O—(CH₂)₁₁—Me

RN 42605-27-6 CAPLUS

CN Phosphorous acid, (methylenediphenylene)bis(oxy-3,6,9,12,15,18,21,24,27-nonaoxanonacosane-29,1-diyl) bis(29-phenoxy-3,6,9,12,15,18,21,24,27-nonaoxanonacos-1-yl) ester (9CI) (CA INDEX NAME)

PAGE 1-A



1/2 [D1—CH₂—D1]

PhO—CH₂—CH₂—O—CH₂—CH₂—O—CH₂—CH₂—O—CH₂—CH₂—O—CH₂—CH₂—O—

PAGE 1-B

— CH₂—CH₂—O—CH₂—CH₂—O—CH₂—CH₂—O—CH₂—CH₂—O—CH₂—CH₂—O—P—

A chemical structure showing a phosphate group (PO3^2-) linked via one of its oxygen atoms to the carbon atom of a methylene group in the polymer chain.

PAGE 1-C

— CH₂—CH₂—O—CH₂—CH₂—O—CH₂—CH₂—O—CH₂—CH₂—O—CH₂—CH₂—O—————
 — O—CH₂—CH₂—O—CH₂—CH₂—O—CH₂—CH₂—O—CH₂—CH₂—O—CH₂—CH₂—————

PAGE 1-D

— CH₂—CH₂—O—CH₂—CH₂—O—CH₂—CH₂—O—CH₂—CH₂—O—CH₂—CH₂—OPh
 — O—CH₂—CH₂—O—CH₂—CH₂—O—CH₂—CH₂—O—CH₂—CH₂—O—CH₂—CH₂—O—D1

L57 ANSWER 14 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1973:125196 CAPLUS
 DOCUMENT NUMBER: 78:125196
 TITLE: Olefin polymerization catalyst
 INVENTOR(S): Caunt, Anthony David
 PATENT ASSIGNEE(S): Imperial Chemical Industries Ltd.
 SOURCE: Ger. Offen., 38 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2234506	A1	19730201	DE 1972-2234506	19720713
GB 1383207	A	19750205	GB 1971-32856	19720630
AU 7244267	A1	19740110	AU 1972-44267	19720705
IT 972157	A	19740520	IT 1972-26862	19720711

FR 2145609	A1	19730223	FR 1972-25190	19720712
NL 7209681	A	19730116	NL 1972-9681	19720713
JP 48026884	A2	19730409	JP 1972-69607	19720713
US 3940345	A	19760224	US 1973-367002	19730604
US 3969269	A	19760713	US 1974-475840	19740603
PRIORITY APPLN. INFO.:			GB 1971-32856	A 19710713
			GB 1972-27010	A 19720609
			US 1972-268505	A2 19720703
			GB 1973-7987	A 19730219

ED Entered STN: 12 May 1984

AB PC13, P(NMe₂)₃, or P(OEt)₃ reacted with alcs. containing amine or ether groups to give 8 P-containing compds. that when used with TiCl₃-Et₃Al or TiCl₃-Ph₃PO mixts. catalyzed the polymerization of propylene at a high rate to give polypropylene (I) [9003-07-0] containing reduced amts. of soluble matter.

Thus,

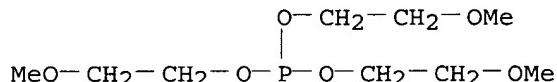
27 mmol P(NMe₂)₃ and 54 N,N-dimethyllethanolamine were heated at 100.deg. under Ar until 55.5 mmole Me₂N was produced, and the reaction mixture fractionated in vacuo to give 6.2 mmole tris[2-(dimethylamino)ethyl]phosphite (II) [39670-03-6] and 8.7 mmole bis[2-(dimethylamino)ethoxy]dimethylaminophosphorus (III) [39670-04-7]. Mixts. containing II and III, Et₃Al, and TiCl₃ (prepared by Et₃Al-reduction of TiCl₄) catalyzed the preparation of I at a conversion of 26.5-39 g/mmole Ti (based on solid I) with 11-13.5% soluble matter compared with 22.5-35 g/mmole Ti and 29-30.5% when no P compound was used and 5 g/mmole Ti and 30% when P(NMe₂)₃ was used as the 3rd component.

IT 4156-80-3

RL: CAT (Catalyst use); USES (Uses)
(catalysts, for polymerization of propylene)

RN 4156-80-3 CAPLUS

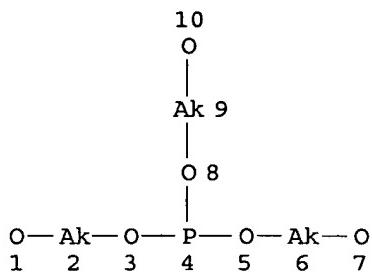
CN Ethanol, 2-methoxy-, phosphite (3:1) (8CI, 9CI) (CA INDEX NAME)



FILE 'HOME' ENTERED AT 11:28:57 ON 21 JUN 2006

=>

=> d stat que l10; d stat que l21; d his nofile
L5 STR



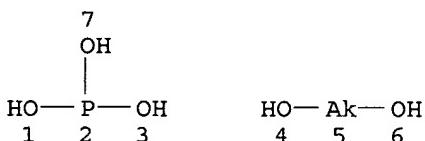
NODE ATTRIBUTES:

CONNECT IS E2 RC AT 2
CONNECT IS E3 RC AT 4
CONNECT IS E2 RC AT 6
CONNECT IS E2 RC AT 9
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED
ECOUNT IS M2 C AT 2
ECOUNT IS M2 C AT 6
ECOUNT IS M2 C AT 9

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 10

STEREO ATTRIBUTES: NONE
L7 STR



NODE ATTRIBUTES:

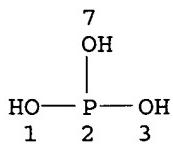
CONNECT IS E3 RC AT 2
CONNECT IS E2 RC AT 5
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED
ECOUNT IS M2 C AT 5

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 7

STEREO ATTRIBUTES: NONE
L10 196 SEA FILE=REGISTRY SSS FUL L5 OR L7

100.0% PROCESSED 347561 ITERATIONS (2 INCOMPLETE) 196 ANSWERS
SEARCH TIME: 00.00.09

L13 STR



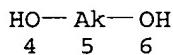
NODE ATTRIBUTES:

CONNECT IS E3 RC AT 2
 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 4

STEREO ATTRIBUTES: NONE
 L14 STR



NODE ATTRIBUTES:

CONNECT IS E2 RC AT 5
 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED
 ECOUNT IS M2 C AT 5

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 3

STEREO ATTRIBUTES: NONE

L19 150 SEA FILE=REGISTRY FAM FUL L13
 L21 9 SEA FILE=REGISTRY SUB=L19 SSS FUL L14

100.0% PROCESSED 150 ITERATIONS (1 INCOMPLETE) 9 ANSWERS
 SEARCH TIME: 00.00.01

(FILE 'HOME' ENTERED AT 10:37:18 ON 21 JUN 2006)

FILE 'CAPLUS' ENTERED AT 10:37:56 ON 21 JUN 2006

SET LINE 250
 SET DETAIL OFF
 E US2004-810404/AP,PRN 25
 SET NOTICE 1000 SEARCH

L1 1 SEA ABB=ON US2004-810404/AP
 SET NOTICE LOGIN SEARCH
 SET LINE LOGIN
 SET DETAIL LOGIN
 D SCAN
 SEL RN

FILE 'REGISTRY' ENTERED AT 10:38:43 ON 21 JUN 2006

L2 16 SEA ABB=ON (102-85-2/BI OR 107-21-1/BI OR 17363-77-8/BI OR

25038-59-9/BI OR 761-55-7/BI OR 865710-66-3/BI OR 865710-69-6/B
I OR 865710-71-0/BI OR 865710-73-2/BI OR 865710-75-4/BI OR
865710-77-6/BI OR 865710-78-7/BI OR 865710-79-8/BI OR 865762-95
-4/BI OR 865762-96-5/BI OR 93481-28-8/BI)
D SCAN

FILE 'STNGUIDE' ENTERED AT 10:39:07 ON 21 JUN 2006

FILE 'REGISTRY' ENTERED AT 10:42:21 ON 21 JUN 2006

L3 STR
L4 3 SEA SSS SAM L3
D SCAN
L5 STR L3
L6 1 SEA SSS SAM L5
D SCAN
L7 STR
L8 0 SEA SSS SAM L7
L9 0 SEA SSS SAM L5 OR L7
D QUE
L10 196 SEA SSS FUL L5 OR L7
SAVE TEMP L10 SHI404FULL/A
L11 11 SEA ABB=ON L2 AND L10
L12 5 SEA ABB=ON L2 NOT L10
D SCAN
D QUE L7
L13 STR L7
L14 STR L7
L15 5 SEA FAM SAM L13
L16 5 SEA SSS SAM L14
L17 SCREEN 1701
L18 50 SEA SSS SAM L14 AND L17
L19 150 SEA FAM FUL L13
SAVE TEMP L19 SHI404FAM1/A
L20 1 SEA SUB=L19 SSS SAM L14
D SCAN
L21 9 SEA SUB=L19 SSS FUL L14
SAVE TEMP L21 SHI404SUB1/A
L22 2 SEA ABB=ON L21 AND L12
L23 202 SEA ABB=ON L10/COMPLETE OR L21/COMPLETE
SAVE TEMP L23 SHI404SUB2/A

FILE 'CAPLUS' ENTERED AT 10:53:58 ON 21 JUN 2006

L24 249 SEA ABB=ON L23

FILE 'REGISTRY' ENTERED AT 10:54:05 ON 21 JUN 2006

L25 1 SEA ABB=ON L23 AND M/ELS
D SCAN
D SCAN L2

FILE 'CAPLUS' ENTERED AT 10:56:01 ON 21 JUN 2006

D SCAN L1

FILE 'STNGUIDE' ENTERED AT 10:57:46 ON 21 JUN 2006

FILE 'REGISTRY' ENTERED AT 11:00:18 ON 21 JUN 2006
E TETRAISOPROPYL TITANATE/CN
L26 2 SEA ABB=ON ("TETRAISOPROPYL TITANATE"/CN OR "TETRAISOPROPYL
TITANATE HOMOPOLYMER"/CN)
E TETRA N-BUTYL TITANATE/CN
E TETRAN-BUTYL TITANATE/CN

E "TETRA(N-BUTYL) TITANATE"/CN
 E "TETRA (N-BUTYL) TITANATE"/CN
 E "TETRABUTYL TITANATE"/CN

L27 5 SEA ABB=ON ("TETRABUTYL TITANATE"/CN OR "TETRABUTYL TITANATE DECAMER"/CN OR "TETRABUTYL TITANATE DIMER"/CN OR "TETRABUTYL TITANATE POLYMER"/CN OR "TETRABUTYL TITANATE TETRAMER"/CN)

FILE 'CAPLUS' ENTERED AT 11:02:44 ON 21 JUN 2006

L28 17483 SEA ABB=ON (L26 OR L27)

L29 1 SEA ABB=ON L24 AND L28
 D SCAN

L30 560959 SEA ABB=ON TITAN?/OBI

L31 4 SEA ABB=ON L24 AND L30

FILE 'REGISTRY' ENTERED AT 11:05:06 ON 21 JUN 2006

L32 8 SEA ABB=ON L21/COMPLETE

FILE 'CAPLUS' ENTERED AT 11:05:11 ON 21 JUN 2006

L33 14 SEA ABB=ON L32

FILE 'REGISTRY' ENTERED AT 11:05:32 ON 21 JUN 2006

D QUE L10

L34 115 SEA ABB=ON L10 AND (C H O P/ELF AND 4/ELC.SUB)
 SAVE TEMP L34 SHI404SUB3/A

FILE 'CAPLUS' ENTERED AT 11:06:25 ON 21 JUN 2006

L35 135 SEA ABB=ON L34

L36 128 SEA ABB=ON L35 NOT PRY>2002
 D SCAN L1

L37 1 SEA ABB=ON L35 AND L1
 D SCAN
 E POLYESTERS+NT/CT
 E 1/SC

FILE 'STNGUIDE' ENTERED AT 11:10:29 ON 21 JUN 2006

FILE 'CAPLUS' ENTERED AT 11:12:54 ON 21 JUN 2006

L38 22 SEA ABB=ON L35 AND 37/SC,SX

L39 8 SEA ABB=ON L35 AND 38/SC,SX

L40 1265404 SEA ABB=ON POLYMER#/OBI

L41 45 SEA ABB=ON L40 AND L35

L42 30 SEA ABB=ON L41 NOT ((L29 OR L31 OR L38 OR L39 OR L33))

L43 953505 SEA ABB=ON PLASTICS?/SC,SX

L44 52 SEA ABB=ON L35 AND L43

L45 5 SEA ABB=ON L44 NOT (L38 OR L39 OR L40)

L46 1265372 SEA ABB=ON (L38 OR L39 OR L40) NOT L44

L47 13 SEA ABB=ON (L38 OR L39 OR L41) NOT L44
 D SCAN TI

L48 1 SEA ABB=ON L47 AND ORGANOMETALLIC/TI
 D SCAN

L49 2515689 SEA ABB=ON ?METAL?/BI

L50 25 SEA ABB=ON (L38 OR L39) AND L36

L51 62 SEA ABB=ON (L40 OR L43) AND L36

L52 10 SEA ABB=ON (L50 OR L51) AND L49

L53 10 SEA ABB=ON (L40 OR L43) AND L35 AND L49

L54 124470 SEA ABB=ON L2

L55 3 SEA ABB=ON L54 AND L51

L56 4 SEA ABB=ON (L40 OR L43) AND L35 AND L54

FILE 'REGISTRY' ENTERED AT 11:23:39 ON 21 JUN 2006

D STAT QUE L21

FILE 'CAPLUS' ENTERED AT 11:23:47 ON 21 JUN 2006
D QUE NOS L33
D IBIB ED ABS HITSTR L33 1-14

FILE 'REGISTRY' ENTERED AT 11:28:20 ON 21 JUN 2006
D STAT QUE L10

FILE 'CAPLUS' ENTERED AT 11:28:21 ON 21 JUN 2006
D QUE NOS L29
D QUE NOS L31
D QUE NOS L53
D QUE NOS L56

L57 14 SEA ABB=ON (L29 OR L31 OR L53 OR L56) NOT L33
D IBIB ED ABS HITSTR L57 1-14

FILE 'HOME' ENTERED AT 11:28:57 ON 21 JUN 2006

FILE 'REGISTRY' ENTERED AT 11:29:18 ON 21 JUN 2006
D STAT QUE L10

FILE 'CAPLUS' ENTERED AT 11:29:18 ON 21 JUN 2006
D QUE NOS L29
D QUE NOS L31
D QUE NOS L53
D QUE NOS L56
D STAT QUE L10
D STAT QUE L21

=>

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